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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/798,973	03/12/2004	Paul Geuvers	056409-5097 5346 EXAMINER		
9629	7590 05/09/2006				
	LEWIS & BOCKIUS L	GAY, JENNIFER HAWKINS			
1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004			ART UNIT	PAPER NUMBER	
	,		3672		
			DATE MAU ED: 05/09/200	DATE MAILED: 05/09/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Learniner Link		Application No.	Applicant(s)				
Jannifer H. Gay 3672		10/798,973	GEUVERS ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensives for term ramy be available under the provisors of 37 CFT 1-136(), no revent, however, may a reply be timely filled. If NO period for reply is specified above, the maximum statistory period will apply and will expire SIX (5) MONTHS from the malling date of this communication. Failur be reply which the side of excented period for reply is specified above, the maximum statistory period will apply and will expire SIX (5) MONTHS from the malling date of this communication, even if timely filed, may reduce any extraor pathent am allegistants. Set 37 CFT 1-736(). Status 1) Responsive to communication(s) filled on	Office Action Summary	Examiner	Art Unit				
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2a) This action is FINAL. 2b) This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 26-35 is/are allowed. 6) Claim(s) 1-25 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 27 August 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * ○) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Informal Patent Application (PTO-152)	Status						
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DETAILED ACTION

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Drawings

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "45" has been used to designate both a slot and a spring. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 53. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 44. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement

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drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-7, 13, 15-22, and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Koch (DE 315601, a translation of this document is being acquired and will be provided with the next Office Action).

Regarding claims 1, 16: Koch discloses a drilling device for producing undercut holes. The drilling device includes the following features:

- A drilling tool **b** having an axis of rotation and a cutting portion **a** arranged such that the cutting portion drills a hole having a longitudinal axis that is radially offset with respect to the axis of rotation.
- A centering device **d** operable to apply a lateral force to the drilling tool for moving the axis of rotation towards the longitudinal axis to cause the cutting portion to form an undercut in the hole.

Regarding claim 2: The centering device is arranged to apply the lateral force to move the axis of rotation to a position in which it is substantially in-line with the longitudinal axis. As shown in the figures, the centering device would force the axis of rotation of the drilling tool toward the longitudinal axis of the cutting portion as it is forced downward onto the cutting portion.

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Regarding claims 3, 21: The centering device is axially slidable along the drilling tool between a non-operative position and an operative position in which it is received in the hole.

Regarding claims 4, 5, 15, 17, 22, 25: The centering device is a tubular member mounted on the drilling tool. The tubular member is mounted for substantially non-rotational axial sliding movement relative to the axis of rotation of the drilling tool.

Regarding claims 6, 7: The tubular member has an external surface having a surface area and the external surface is relieved by at least one recess (the opening for the handle g) that extends at a 90° angle to the longitudinal axis to reduce the surface area.

Regarding claims 13, 16: The drilling tool comprises a drill shaft that defines the axis of rotation and the centering device comprises a sleeve that at least partially surrounds a portion of the drill shaft and is axially slidable relative thereto, the drilling device further comprising at least one member g connected with the sleeve by which an operator can cause the axial sliding movement of the sleeve for moving the sleeve into the hole alongside the drill shaft to apply the lateral force to the drilling tool.

Regarding claims 18, 19: The drilling device is fitted to a drilling machine (Figure 5).

Regarding claims 20, 24: Koch discloses a method of producing an undercut hole using the above drilling device. The method involves the following steps:

- Drilling a hole with a drilling tool that has a cutting portion arranged to produce a hole having a longitudinal axis that is radially offset with respect to an axis of rotation of the drilling tool.
- Applying a lateral force to the drilling tool to cause the axis of rotation to move towards the longitudinal axis.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Koch in view of Spangenberg (US 6,022,176).

Koch discloses all of the limitations of the above claim(s) except for a making device for marking the surface in which an undercut hole is drilled.

Spangenberg discloses a method and apparatus for drilling an undercut hole.

It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified the drilling device of Koch to include a marking device as taught by Spangenberg in order to have indicated that the undercut has been drilled (1:38-62).

8. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Koch.

Koch discloses all of the limitations of the above claim(s) except for a power-assisted mechanism for the moving the centering device. Koch does teach the use of manual manipulation of the centering device. Therefore, it would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have replaced the manual handle of Koch with a power-assisted mechanism, since it has been held that broadly providing a mechanical or automatic means to replace manual activity which has accomplished the same result involves only routine skill in the art. *In re Venner*, 120 USPQ 192.

9. Claims 10-12, 14, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koch in view of Erath (US 5,544,989).

Koch discloses all of the limitations of the above claim(s) except for the drilling device being coupled to a support device where the support device is capable of being adjusted to drill a plurality of undercut holes and includes a telescoping arrangement.

Erath discloses a support device for an undercut hole drilling device. Erath further teaches that the support device is capable of allowing multiple holes to be drilled and includes a telescoping arrangement (outer tube 11 and inner tube 3).

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It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified the drilling device of Koch to include a support device such as that taught by Erath in order to have a means for increasing the accuracy and precision of the holes as the support device would have eliminated the need for the operator to both hold the drilling device and manipulate the centering device.

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Allowable Subject Matter

10. Claims 26-35 are allowed.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer H. Gay whose telephone number is (571) 272-7029. The examiner can normally be reached on Monday-Thursday, 6:30-4:00 and Friday, 6:30-1:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bagnell can be reached on (571) 272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner Art Unit 3672

JHG \ \ May 4, **2**006